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Notice of Allowability	Application No.	Applicant(s)	
	09/322,444	MINOWA ET AL.	
	Examiner	Art Unit	
	Duc C. Ho	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 8-11-06.
2. ☒ The allowed claim(s) is/are 1-3, 17, 16, 4-15, and 18-20. Renumbered 1-20, respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>10-25-06</u>. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|--|

EXAMINER 'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dexter Chang on 10-16-06, and Brian F. Hennessey on 10-25-06.

The application has been amended as follows:

In the claims:

Claim 1, line 9, delete "corresponding".

Claim 1, line 9, change "among the spread signals" to --- among the received spread signals ---.

Claim 1, line 10, change "corresponding timing signals" to --- the corresponding timing signal ---.

Claim 4, line 10, delete "corresponding".

Claim 4, line 10, change "among the spread signals" to --- among the received spread signals ---.

Claim 4, line 11, change "one of the timing signals" to --- the corresponding timing signal ---.

Claim 4, line 12, delete "wherein".

Claim 5, line 10, delete "corresponding".

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Claim 5, line 10, change “among the spread signals” to --- among the received spread signals ---.

Claim 5, line 11, change “one of the timing signals” to --- the corresponding timing signal ---.

Claim 5, line 12, delete “wherein”.

Claim 6, line 8, delete “corresponding”.

Claim 6, line 8, change “among the spread signals” to --- among the received spread signals ---.

Claim 6, line 9, change “one of the timing signals” to --- the corresponding timing signal ---.

Claim 13, line 8, delete “corresponding”.

Claim 13, line 8, change “among the spread signals” to --- among the received spread signals ---.

Claim 13, line 9, change “one of the timing signals” to --- the corresponding timing signal ---.

Claim 18, line 7, delete “corresponding”.

Claim 18, line 7, change “among the spread signals” to --- among the received spread signals ---.

Claim 18, line 8, change “one of the timing signals” to --- the corresponding timing signal ---.

Claim 19, line 6, change “a phase of each spread code” to --- a phase delay of the corresponding spread code ---.

Claim 19, line 7, delete “wherein”.

Claim 20, line 6, change "wherein a" to --- each ---.

Claim 20, line 7, change "demodulates" to --- demodulating ---.

Reason for Allowance

2. Regarding claims 1-3, 17, 16, 4-15, 18, and 20, the prior art fails to teach or suggest a receiving device for receiving spread signals which are respectively transmitted over a plurality of channels, in a CDMA communication system, comprising a plurality of despread demodulators which are arranged for the plurality of channels, for respectively demodulating a spread signal among the received spread signals according to the corresponding timing signal generated by the path detector, in combination with other limitations, as specified in the independent claims 1, 4, 5, 6, 13, 18, and 20.

Regarding claim 19, the prior art fails to teach or suggest a receiving device for receiving spread signals which are respectively transmitted over a plurality of channels, in a CDMA communication system, comprising a plurality of despread demodulators which are arranged for the plurality of channels, for demodulating a spread signal transmitted over a corresponding channel by despread the spread signal with a corresponding spread code; instructing means for instructing a phase delay of the corresponding spread code used for despread each of the spread signals transmitted over the plurality of channels, in combination with other limitations.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Friday from 7:00 am to 3:30 pm.

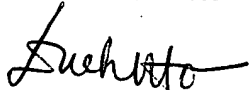
If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner



Duc Ho

10-25-06